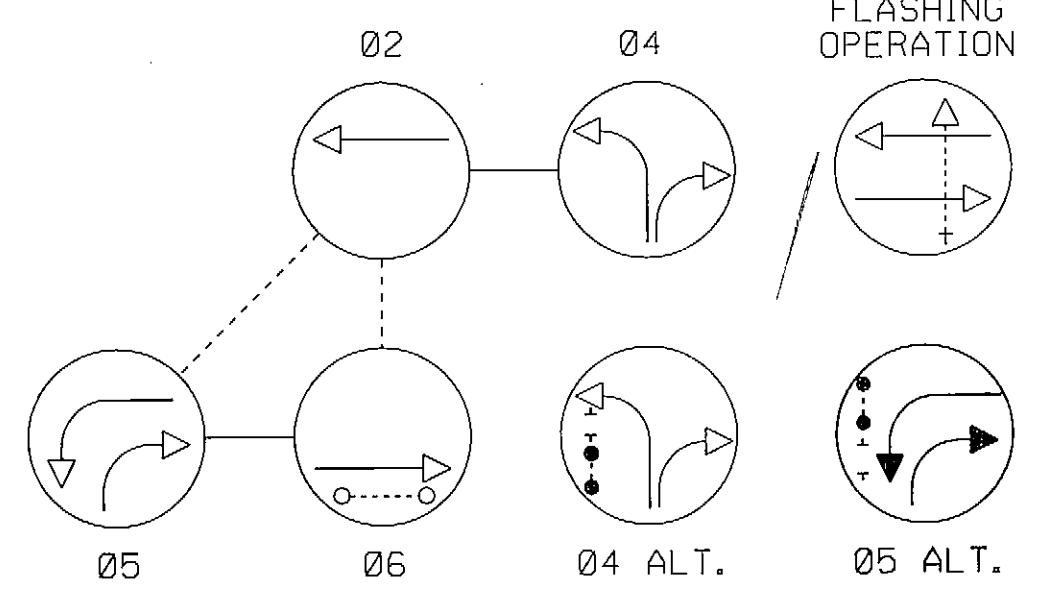


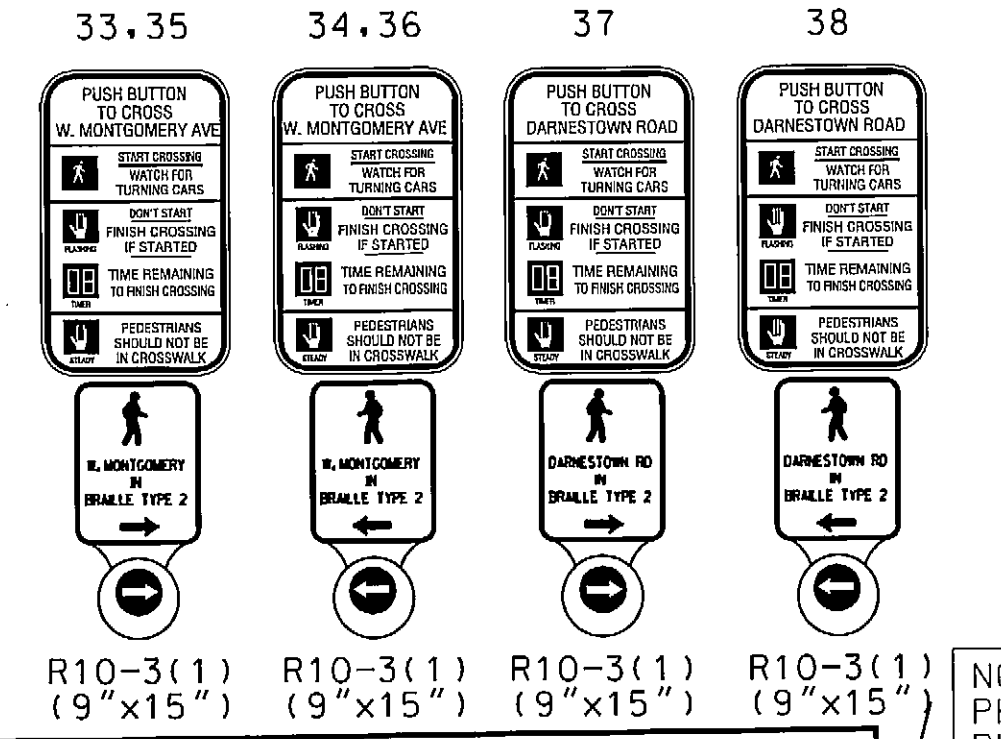
TOD NO. X427-03  
SHA NO. MD228A51/BS1  
MD 28 @ DARNESTOWN RD

NEMA PHASING

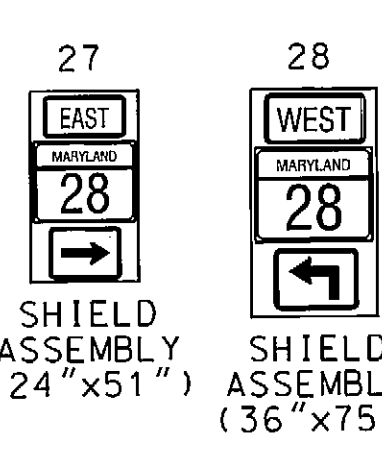


NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

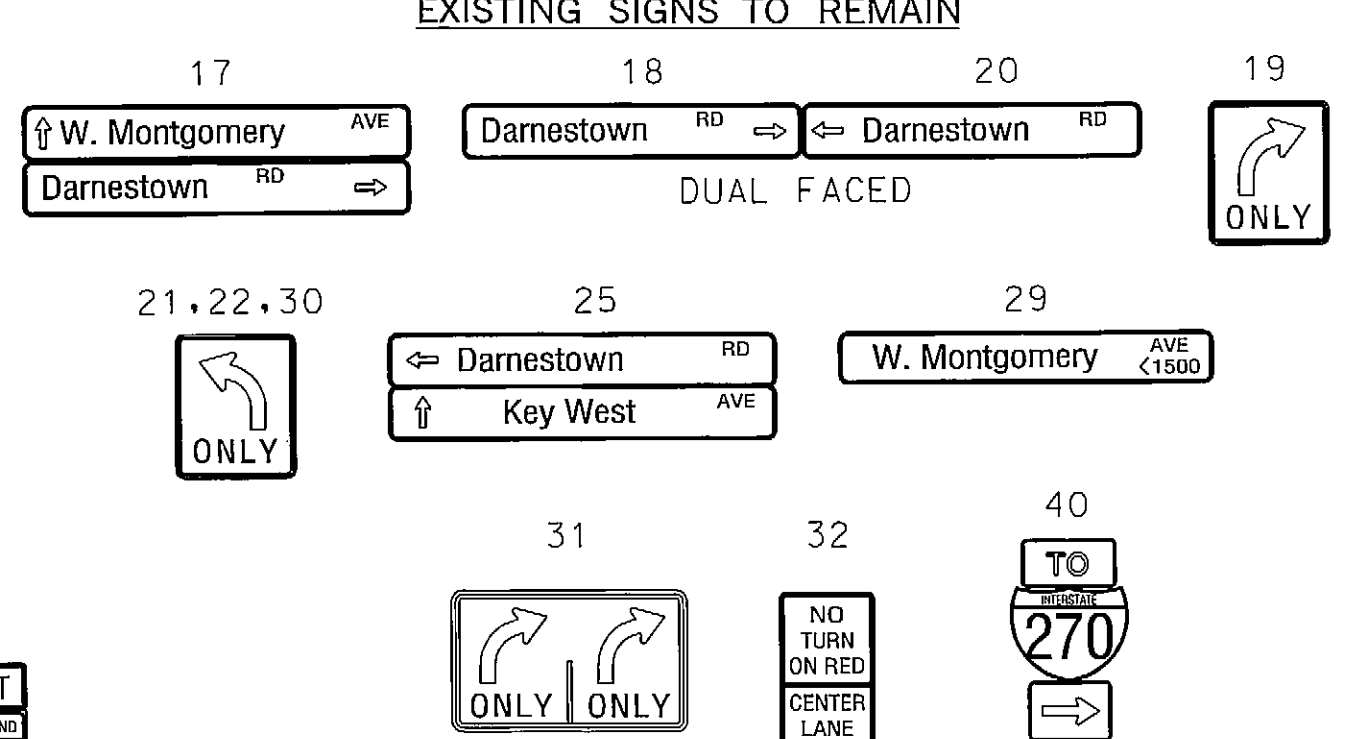
PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN



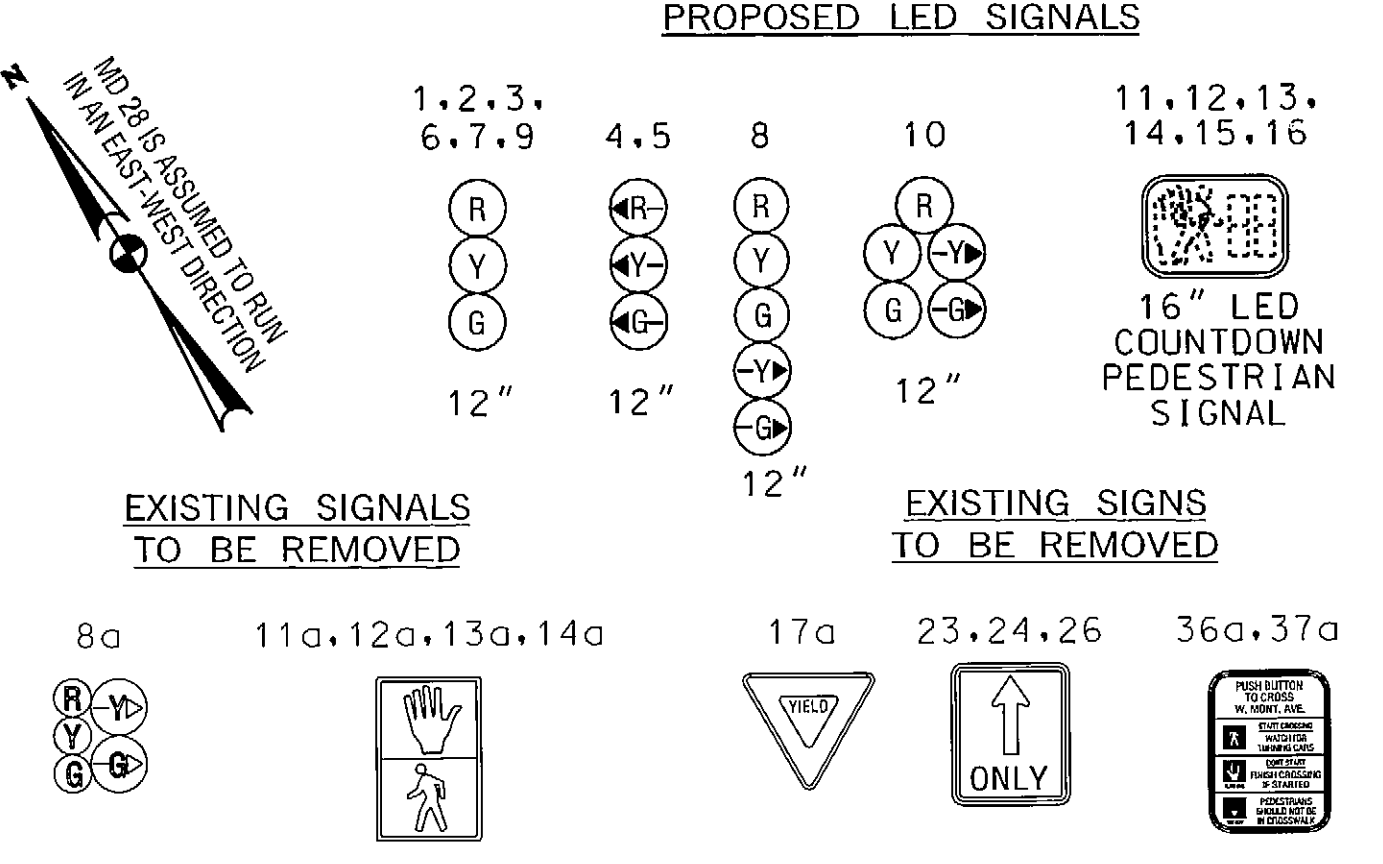
PROPOSED SIGNS



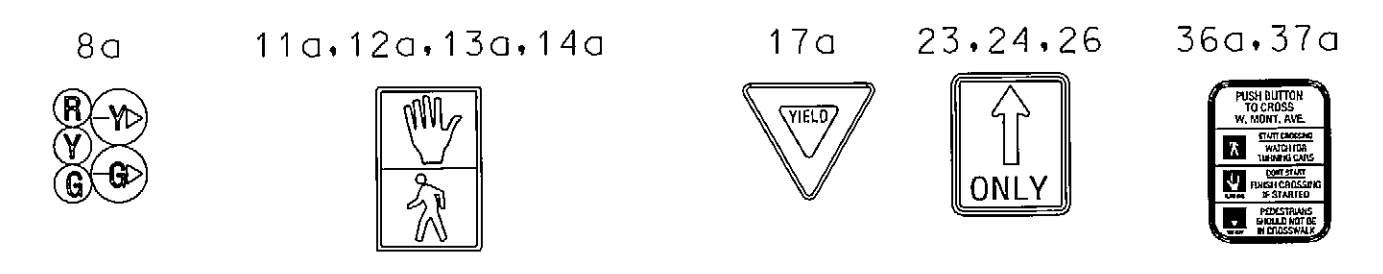
EXISTING SIGNS TO REMAIN



PROPOSED LED SIGNALS

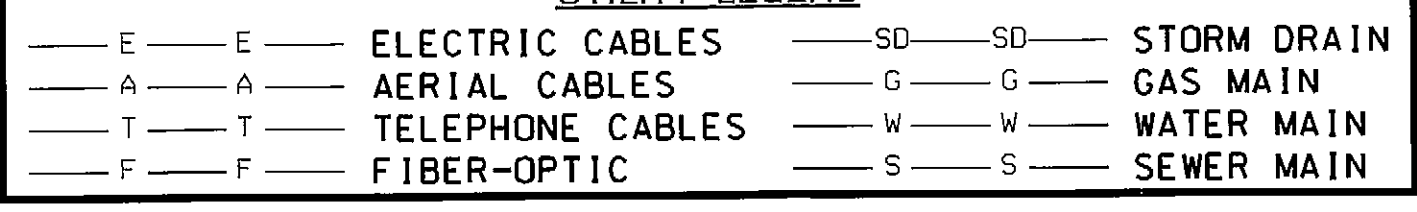


EXISTING SIGNALS TO BE REMOVED



- CONSTRUCTION DETAILS
- INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801-01.01. BREAKAWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS W. MONTGOMERY AVE." (NOTE: 1-3 IN. 90 DEGREE PVC BEND)
  - INSTALL A 14 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION, BREAKAWAY TRANSFORMER BASE, LED VEHICULAR TRAFFIC SIGNAL HEAD, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS W. MONTGOMERY AVE." (NOTE: 1-3 IN. 90 DEGREE PVC BEND)
  - INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801-01.01. BREAKAWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS DARNESTOWN ROAD." (NOTE: 1-3 IN. 90 DEGREE PVC BEND)
  - INSTALL A 14 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION, BREAKAWAY TRANSFORMER BASE, LED VEHICULAR TRAFFIC SIGNAL HEAD, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS DARNESTOWN ROAD." (NOTE: 1-3 IN. 90 DEGREE PVC BEND)
  - INSTALL ELECTRICAL HANDHOLE.
  - INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
  - INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED.
  - REMOVE EXISTING PUSHBUTTON, PEDESTRIAN SIGNAL HEADS, SIGN, VEHICULAR TRAFFIC SIGNAL HEAD AND INSTALL PROPOSED OVERHEAD SIGN ON EXISTING SIGNAL POLE.
  - REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW LED VEHICULAR TRAFFIC SIGNAL HEAD AS SHOWN.
  - INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
  - INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
  - INSTALL OVERHEAD SIGN ON EXISTING SIGNAL POLE.
  - CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE
  - SHA STD. MD 655.40.
  - CONSTRUCT 5 FT. SHA STD. MD 655.21 MEDIAN CUT-THROUGH WITH DETECTABLE WARNING SURFACES SHA STD. MD 655.40.
  - REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE SHA STD. MD 655.40.
  - REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT 5 IN. CONCRETE SIDEWALK WITH STANDARD TYPE A CURB AND GUTTER, 8 IN. CURB AND 12 IN. GUTTER PAN.
  - REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE SHA STD. MD 655.40. CONSTRUCT STANDARD TYPE A CURB SHA STD. MD 620.02 IN LIEU OF SIDE FLARE.
  - REMOVE EXISTING MEDIAN CUT-THROUGH AND CONSTRUCT 5 IN. CONCRETE SIDEWALK WITH STANDARD TYPE A CURB AND GUTTER, 8 IN. CURB AND 12 IN. GUTTER PAN.
  - REMOVE A SECTION OF EXISTING TRAFFIC BARRIER. RELOCATE EXISTING TRAFFIC BARRIER END TREATMENT.
  - USE EXISTING HANDHOLE.
  - USE EXISTING CONDUIT.
  - USE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
  - REMOVE EXISTING PAVEMENT MARKINGS.
  - REMOVE EXISTING SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL, CAP AND ABANDON EXISTING CONDUIT.
  - ADJUST EXISTING HANDHOLE TO GRADE.
  - REMOVE EXISTING MEDIAN CUT-THROUGH AND CONSTRUCT 5 FT. SHA STD. MD 655.21 MEDIAN CUT-THROUGH WITH DETECTABLE WARNING SURFACES SHA STD. MD 655.40.
  - REMOVE EXISTING SIGNAL EQUIPMENT. REMOVE FOUNDATION TO MATCH PROPOSED SIDEWALK GRADE. CAP AND ABANDON EXISTING CONDUIT.
  - REMOVE EXISTING OVERHEAD SIGN.
  - REMOVE EXISTING GROUND MOUNTED SIGN.
  - REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 5 IN. WHITE (3 FT. STRIPE / 3 FT. GAP / 3 FT. STRIPE) PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
  - RELOCATE EXISTING SIGN AS SHOWN.
  - REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW LED VEHICULAR TRAFFIC SIGNAL HEAD ON THE SIGNAL POLE UPRIGHT.

UTILITY LEGEND



GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL INTEGRATE PROPOSED CONCRETE FOUNDATIONS WITH NEW SIDEWALK RAMP WHERE NECESSARY.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATION(S) PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMP.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 28 (W. MONTGOMERY AVENUE)  
AT DARNESTOWN ROAD  
ROCKVILLE, MD

SIGNALIZATION PLAN SHEET

SCALE 1"=20'	ADVERTISED DATE 10-25-93	CONTRACT NO. M-528-503-371
DESIGNED BY M. MILLER OF G&O	COUNTY MONTGOMERY	
DRAWN BY M. MILLER OF G&O	LOGMILE 15002820.42	
CHECKED BY S.P. 11884	TIMS NO. J440	
F.A.P. NO.	TOD NO.	
TS NO. 3339-A	DRAWING SG-01 OF 02	SHEET NO. 1 OF 2

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

ADD APPS CPG & LED SIGNALS & RELOCATE CROSSWALK FROM EAST TO WEST LEGS  
SHA NO. X4275185  
2/2009  
MCE

PLOTTED: 5/24/2009  
FILE: SP1ES

**STV Incorporated**  
engineers/architects/planners/construction managers  
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112